



**ICULTURAL ENTERPRISES, INC.**  
 746 Vertin Avenue · Salinas, CA 93906 · Phone 831/422-9693 · Toll-free 866/280-6229  
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## Area of application

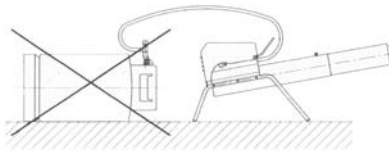
The device is used to discourage game and birds from foraging in a specific area by producing a noise at a certain sound pressure level. The device may only be used outdoors.

- *Place the detonating device on a stable and horizontal surface.*
- *Observe the local requirements and rules that may apply to noise and the production of sound in the vicinity of a residential area or otherwise.*
- *Do not place any heavy objects on the detonating device and do not block the air circulation.*
- *It is important to move the device regularly in order to increase its effectiveness.*

Proper use of the ZON MARK 4 Scarecrow Gun depends on the operator being entirely familiar with the contents of the operating instructions.



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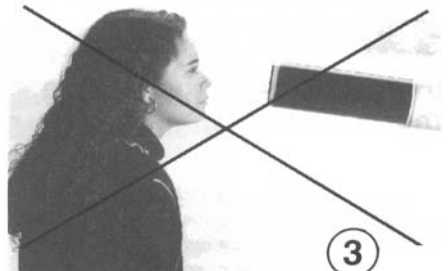
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# Zon Mark 4 USER'S MANUAL

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## Warning

With a functioning device:

- Wear ear protection while operating the device (sound pressure level is approx. 120 dB(A) FAST when measured perpendicular to the end of the megaphone at 1 metre's distance) (Fig. 1).
- Never use the device indoors or in a closed space (Fig. 2).
- Never look into its megaphone (Fig. 3).
- Do not smoke (Fig. 4).
- Never place subjects in the megaphone.
- Keep the gas cylinder away from sources of heat.
- The gas cylinder should be placed upright (Fig. 5).
- Never place the gas cylinder in a pit.
- Keep the device away from inflammable material (e.g. crops) as a precaution against fire caused by the detonation flame.
- If there is a fire:
  - a. close the valve of the gas cylinder;
  - b. extinguish fire with dry-chemical extinguisher.
- Only propane or butane gas may be used, and preferably propane. No other types of gas are allowed!

The device has certain components which can only be repaired or set by the DAZON technical service department or by a recognized dealer.



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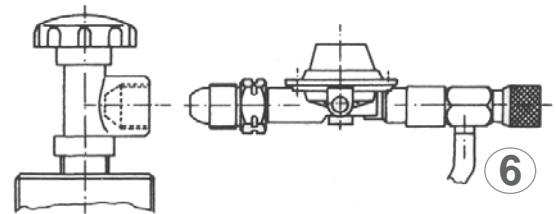


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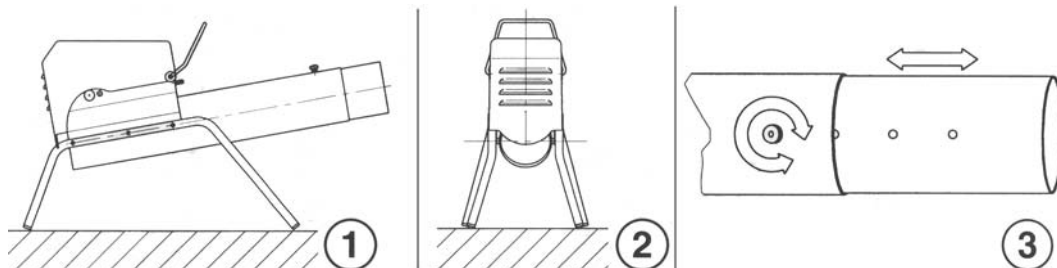
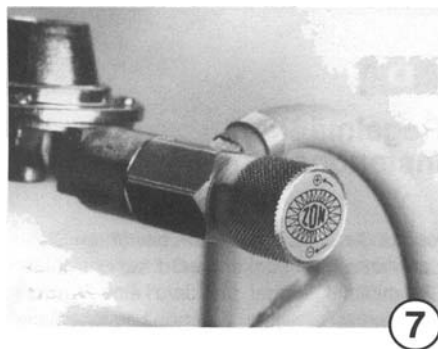
## Installation

- After removing the packaging, place the caps, art. no. 91656, into the ends of the base frames. Attach the left and right base frame, art. nos. 91636 and 91646, to the device using the butterfly nuts supplied. Right (R) and left (L) are marked at the centre of the base frames. After attaching the base frames, the device should stand at a specific angle and the frames should be well spaced (Fig. 1 and 2).
- Loosen the clamping bolt, art. no. 91116, from the inner megaphone, art. no. 91156, and pull the inner megaphone outwards. You can adjust the sound level somewhat with this telescopic part (Fig. 3). **Always check that the clamping bolt has been secured to one of the 5 holes in the inner megaphone, depending on the desired inner megaphone length.**
- To ensure that the clamping bolt is correctly positioned above a fixing hole, line up the next fixing hole with the end of the outer megaphone, art. no. 91106.
- Connect the regulator unit, art. no. 919(.).6, to the gas cylinder. Make sure that you have the right gas cylinder connection. Ask your dealer for advice.  
 Make sure that the regulator unit and gas cylinder connections are clean. Also check that the regulator unit has a sealing ring (fitted with a female thread) (art. nos. 91906, 91936 and 91946) and that the ring is clean.



## Installation (continued)

- **Instructions for regulator units art. nos. 91906, 91916, 91926, 91936, 91946 and 91956:**  
 Tighten the coupling nut on the gas cylinder (counter-clockwise) with a suitable spanner. Never use force when assembling the device (Fig. 5).
- Open the valve of the gas cylinder and interval regulator completely by turning them counter-clockwise. The sound pressure of the first two detonations may be lower than desired, but the device will work properly thereafter.
- If the interval regulator is entirely open (+), the device will operate at intervals of 40 to 60 seconds. For longer intervals, close the interval regulator smoothly (-) until you reach the desired time (Fig. 7).
- The only way to stop the device is to close the gas cylinder valve.
- The only way to start up the device is to open the gas cylinder valve. The intervals have already been set.





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## Failure table

FAILURE	CAUSE	REMEDY
The ZON MARK 4, fully connected, fails to operate at all.	The valve of the gas tank is not open. The interval regulator is not opened.	Open the valve. Open it by turning into the + mark direction; if the detonations are too frequent, turn it a little to the - mark. Connect a new gas tank.
	The gas tank is empty or has too little pressure. The gas valve, art. no. 91406, cannot be opened. This may happen if the device has not been operated for some time.	Use two fingers to grasp the hinged clip, art. no. 91266, and pull it up vertically once or twice. Be sure to keep the hinged clip from slipping over the stop lip of the spring holder, art. no. 91236, as this will prevent you from opening the gas valve.
	Leaks.	Tighten coupling nut with suitable spanner. Renew the hose. A fast method to trace a leak in the gas regulator is to check it with a leakage spray. Repair should be carried out by the dealer.
The ZON MARK 4 operates, but there is no explosion or sound.	The coupling nut gas regulator is not tight enough. The hose from the regulator-unit to the ZON MARK 4 has been damaged.	Check the electrode, no. 91536. It is possible that the porcelain or the mass point is broken; if so, renew. Piezo-element, art. no. 91526: replace. Piezo-element and/or electrode are wet. Dry both well.
	Diaphragm leaks along the plate rim.	Place the ZON MARK 4 down the wind or, possible, place it out of the wind or behind a screen.
	Ignition gives a weak spark or no spark at all.	Gas mixture in the gas tank is not good, replace gas tank. Preferably use propane gas!
The ZON MARK 4 works, but the diaphragm gland, no. 91226, remains in the top position.	The wind is too strong (> 7 m/s); gas/air mixture is disturbed.	Clean opening with small piece of wire no more than 0,6 mm thick.
	Gas mixture is not good.	Use two fingers to grasp the hinged clip, art. no. 91266, and pull it up vertically once or twice. Be sure to keep the hinged clip from slipping over the stop lip of the spring holder, art. no. 91236, as this will prevent you from opening the gas valve.
	The gasvalve-holder, art. no. 91416, is blocked or partially blocked. The gas valve, art. no. 91406, cannot be opened. This may happen if the device has not been operated for some time.	Spring diaphragm gland, art. no. 91286A are broken. If so, replace. Lifting level must be 1-2 mm. The measures which have to be taken for this, must be carried out by the dealer.
	Gas valve, art. no. 91406, stays open: diaphragm gland, art. no. 91226 remains above. The gas valve, art. no 91406, can't be opened or sufficiently opened.	Place the ZON MARK 4 down the wind or, possible, place it out of the wind or behind a screen. Pull out to full extension.
The ZON MARK 4 works, but gives dull explosions.	Wind is too strong; gas/air mixture is disturbed.	
	Telescopic megaphone not or partially pulled out.	

*We wish to emphasize that, pursuant to the Dutch Product Liability Act, we are not liable for any damage arising from our equipment when such damage is the result of unskilled repair or if replacement parts are not original DAZON parts or parts authorized by us and if the repair was not carried out by the DAZON technical service department or the dealer. The same applies to spare parts and accessories.*

### Routine maintenance

Check that the device is out of action, and then store it at a dry place and maintain it at least once a year.  
 Never use inflammable cleaning agents to clean the device. Do not use a steamjet sprayer.

### Lubrication

When setting up the device on site, be sure to lubricate the following points (do so at least once a year) (see p. 12).  
 Grease = V  
 Oil = O

### Inspection

When setting up the device on site, be sure to check the following points:

- If the gas hose is defect (porous/cracks), replace it with a new one. When in doubt use a new hose.
- Check the springs on breaking. If there are any defects, fit new ones.
- Check the gas regulator on damage. If there are any defects, fit a new gas regulator.

If you detect other defects, consult your dealer